Course number and name: MA 35100 Elementary Linear Algebra

Credits and contact hours: 3.0 Credits; 3.0 Lectures

Instructor’s or course coordinator’s name: Adam Coffman and Peter Dragnev

Text book, title, author, and year

Elementary Linear Algebra (Loose Pgs) (Text Only). Howard Anton (2013), (11th ed.).
Elementary Linear Algebra. Howard Anton (2014), (11th ed.).

Course Description

Linear transformations, finite dimensional vector spaces, matrices, determinants, systems of linear equations, and applications to areas such as linear programming, Markov chains and differential equations.

Prerequisites or co-requisites: two semesters of calculus with grades of C- or better.

Whether a required, elective, or selected elective course in the program: Required

Course Goals:

Course Objectives

Student Outcomes

The course learning outcomes of MA 165 support outcomes \{a, k\} of the Computer Engineering Program Student Outcomes:

a. an ability to apply knowledge of mathematics, science, and engineering
k. an ability to use the techniques, skills, and modern tools necessary for computer engineering practice

Major Topics Covered in the Course

The plan is to cover over half the book this semester, starting with almost all of Chapters 1–3, then continuing with Chapter 4, Chapter 8, and some sections from Chapters 5, 6, 7.

The above midterm dates may be flexible depending on the progress through the material or other concerns. There will also be (announced) quizzes every week or two, and homework sets due about once a week which I will assign and collect in class.